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UNITED STATES DEPARTMENT OF AGRICULTURE BUREAU OF HOME ECONOMICS TASHINGTON, D. C.

ELECTRIC RANGES

A Partial List of References

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INTRODUCTORY NOTE

This list of references was compiled to supply those interested in the construction, design, and sale of household electric ranges, as well as those interested in their selection and operation, with a survey of the literature on the subject available in most American libraries. It is confined to articles in the English language, published since 1927. It is in no sense a complete bibliography, nor is it critically selective.

The references are arranged under subject headings, and brief annotations are given where it seemed desirable. It is hoped that the list will indicate the general scope of the available material on the subject, and the need for further work in the field.

ELECTRIC RANGES

A partial list of references

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GENERAL REFERENCES

American Home Economics Association

Applications of electricity to domestic use. Jour. Home Econ. 22: 631-640. 1930.

General survey of American usages.

Bainer, R., and Jorgenson, L. M.

Electrical cooking in the farm home. Kans. Agr. Col. Ext. Bull. 66, 16 pp. 1930.

Brigham, H. C.

The electric range for the home. Iowa State Col., Engin. Ext. Serv. Bull. 102, 43 pp. 1929.

Zink, F. J., and Paine, F. D.

Utilization of electric equipment and appliances in the farm home. Iowa Engin. Exot. Sta. Rept. 6, Project 123, 56 pp. 1928. (Iowa State Col. Off. Pub., vol. 27, no. 12)

Child, A. H.

Electric range cooking. Bibliography and abstracts. Minn. Univ., Div. of Home Econ. 8 p. 1928. [Himeographed.]

and Kelly, F. C.

Selection and use of the electric range. Minn. Univ., Agr. Ext. Pamphlet 6, 16 pp. 1928. [Mimeographed.]

Comstock. S.

Homes that turn the turbines. World's Work 59 (12): 55, 59. 1930.

Popular discussion of the domestic use of electricity, including some data.

Davison, E.

What the homemaker needs to know about electricity. Natl. Elect. Light Assoc. Bull. 18: 481-484. 1931.

Dover, H. L.

Growth of electric cooking. Electrician 104: 362. 1930. Interesting facts about early applications of electricity to cooking processes.

Greene, P. S., and Smith, L. Electrical cookery. Maine Agr. Expt. Sta. Bull. 360: 193-194. 1931.

Hader, M. C.

An attempt to aid consumers in Norway. Jour. Home Econ. 19: 185-188. 1927.

Electrical appliances investigated to determine efficiency and suitability for domestic purposes.

Halbert, B.

Better homes manual. Chap. 13: 468-469. Chicago, University of Chicago Press. 1931.

GENERAL REFERENCES (CONTINUED)

Hewes, A.

Electrical appliances in the home. Social Forces 9: 235-242.

Comparison of the use of electrical equipment in families of two income levels.

Lincoln, E. S.

The electric home. 454 p. New York, Electric Home Publishing Co. 1933

Monroe, M. M.

A primer of electricity and heat. Maine Agr. Expt. Sta. 16 pp. [Mimeographed.]

Valuable for consumer education.

Peyser, E. R.

The robot of the kitchen. House Beautiful 69: 518-519. 1931.

Description and photographs of modern gas and electric ranges.

Rapp, M.

Fuels used for cooking purposes in Indiana rural homes. Purdue Univ., Agr. Expt. Sta. Bull. 339, 32 pp. 1930.

Redfield, G. M.

Care and operation of electric household equipment. Purdue Agr. Ext. Leaflet 187, 6 pp. 1933.

Ryan, J. A.

Efficient slaves of intelligent masters. Natl. Safety News 20 (4): 116, 126. 1929.

Care of electrical appliances.

Smith, L., Monroe, N. M., and Greene, P. S. Electrical cookery. Maine Agr. Expt. Sto. Bull. 363: 271-274. 1932.

Smith, P. S., Macelwee, N. M., and Boyne, J. G.

Electrical cooking appliances for domestic purposes. Forld Power 6: 136-142: 197-204. 1926.

Discusses tests of boiling plates and recommends cooling utensils with self-contained elements.

Swartz, V. W.

Baking vegetables electrically. Wash. Agr. Expt. Sta. Bull. 251, 20 pp. 1931.

Whitton, N. O.

The new servant. 326 pp. New York, Doubleday, Page & Co. 1927. (Chapter 10).

Woodson, J. C.

Electric heating. 58 pp. Scranton, Po., International Textbook Co. 1931.

Port 2 deals with cooking appliances.

PROMOTION OF USE AND SALE

Anonymous

The application of electricity in the farm home. <u>In</u> Iowa Agr. Expt. Sta. Ann. Rept., p. 61. 1928.

Anonymous

The housewife's attitude toward appliances and wiring. Results of J. Talter Thompson Co's consumer survey. Elect. West. 63: 114-115. 1929

Application of electricity to the farm home. In Iowa Agr. Expt. Sta. Ann. Rept., pp. 59-60. 1930.

Department of Commerce makes domestic range study. Elect. World 96: 1150. 1930.

Hire purchase of appliances. Electrician 105: 362. 1930.

Advantages of English hire-purchase plan to both consumer and powe company.

Ranges. Elect. West. 64: 600-602. 1930.

Seen as the greatest potential load and revenue builder.

Electricity starts war to push gas down into the basement. Business Week No. 131 (March 9), pp. 9-10. 1932.

Electric range. Elect. West. 70: 258-260. 1933.

Report of Electric Range Counttee for 1933 on type, price, and sales features.

Markets for electrical merchandise. Review and forecast. Elect. Merchandising 51: 29-35, 58-57. 1934.

Analysis of sales of household equipment from 1929 to 1933.

Bell, J. A.

Domestic electrification. Elect. Rev. 110: 165. 1932.

Reasonable terms for purchase of appliances and attractive tariffs essential to build load.

Browne, P. E.

Relative advantages of electricity and gas for domestic use. The case for gas. Gas Jour. [London] 199: 155-156. 1932.

Clinch, 7. N. C.

Relative advantages of electricity and gas for domestic use. The case for electricity. Gas Jour. [London] 199: 156-157. 1932.

Hienton, T. E.

Report of second annual agricultural short course for rural service mer

Purdue Univ., Engin. Expt. Sta. Bull., pp. 15-23; 87-92. 1928.

PROMOTION OF USE AND SALE (CONTINUED)

and Rapp, M.

Electric service for light, heat and power. Purdue Univ. Agr. Expt. Sta. Circ. 157, 24 pp. 1928.

Hinrichs, H. S.

Use of electricity on Kansas farms. Kans. Engin. Expt. Sta. Bull. 21, 64 pp. 1928.

Lehmann, E. W., and Kingsley, F. C.

Electric power for the farm. Ill. Agr. Expt. Sta. Bull. 332, pp. 375-479. 1929.

McCuen, G. W., and Blauser, I. P.

Using electricity on Ohio forms. Ohio Agr. Col. Ext. Bull. 96, 31 pp. 1930.

Mills, R.

The range that nobody knows. Elect. World 99: 663-666. 1932. Sales arguments for electric ranges.

Parks, R. R.

The use of electricity on Missouri farms. Mo. Agr. Expt. Sta. Bull. 268 46 pp. 1929.

Prickett, L. C.

Electricity on the farm and in rural communities. Com. on Relation of Elect. to Agr. Bull. 7, no. 1, 332 pp. 1931.

Summary of data.

Snow, H. A.

Utility research indicated appliance load values. Elect. World 91: 143-147. 1928.

Data, with graphs, for residential consumption.

Waggoner, J. E.

Electricity on Texas farms. Tex. Agr. Col., Engin. Expt. Sta. Bull. 35. 66 pp. 1928.

COSTS AND REVENUE

Anonymous

Apparatus on hire. Electrician 109: 840-841. 1930.

Revenue from rentals and cost of repairs found satisfactory.

Electricity and gas in Germany. 2 Parts. Elect. Rev. [London], Jan. 3, 37-39, 85-86. 1930.

Comparison of costs based on daily household use.

Appliance operating costs at a glance. Elect. World 97: 763. 1931. Chart for quick computations.

Reduced use of electricity makes unit costs higher. Ill. Agr. Expt. Sta. Ann. Rept. 1931-32: 175-177. 1932.

COSTS AND REVENUE (CONTINUED)

Retail prices of electricity in the U.S. Mo. Labor Rev. 37: 447-449.

Net rates per kilowatt hour for household electricity in 51 cities.

Barker, A. H.

The relative fuel economy of electricity, gas, oil, and solid fuel as heating agents. Jour. Instl Elect. Engin. 72: 269-295. 1933.

Technical paper.

Cook, M. L.

What electricity costs in the home and on the farm. 229 pp. New York, New Republic, Inc. 1933.

Dysart, J. T.

Cost of servicing electric ranges. Elect. World 90: 843. 1927.

Data on 2,533 ranges in Kansas City.

Edwards, H.

Economies of electric cooking. Electrician 103: 596. 1929.

Potter, R. A., and Dresslar, M. E.

Further data on the cost of gas and electricity for cooking. Jour. Home Econ. 23: 67-70. 1931.

Condensed data and conclusions for 6 stoves.

Shawn, G. B.

A comparison of gas and electric ranges for domestic cooking. Amer. Gas Assoc. Testing Lab. Bull. 3, 20 pp. 1928.

DESIGN AND STANDARDS - AMERICAN

Anonymous

Study of ovens used for domestic cooking purposes. <u>In</u> Purdue Univ., Agr. Expt. Sta. Ann. Rept., p. 53. 1930.

A study of ovens used for domestic cooking purposes. <u>In</u> Purdue Univ., Agr. Expt. Sta. Ann. Rept., pp. 43-44. 1932.

Baragon, A. E., and Snyder, E. B.

A study of five commercial electric stoves. Nebr. Agr. Expt. Sta. Bull 63, 62 pp. 1933.

Barnsteiner. A.

Electric range performance determined by water-boiling test. Elect. Jour. 27: 481. 1930.

Gushee, E. T.

Electric range with a price appeal. Elect. World 94: 185-186. 1929. Development of the Electro-Chef.

James, H. D.

Electrical products developed in 1932. Westinghouse. Arch. Rec. 73: 69-71. 1933.

Describes automatic adjustments for fixed temperature and "decreasing heat control."

DESIGN AND STANDARDS - AMERICAN (CONTINUED)

Lows, F. R.

Range-design trend aids utility service. Elect. World 98: 1090-1092. 1931.

Describes and illustrates load balancing.

Liston, J.

Some G. E. developments during 1932. Natl. Elect. Light Assoc. Bull. 20: 33-38, 42. 1933.

Littleton, J. T., and Phillips, C. J.

Electric range oven performance. Elect. World 100: 527-529. 1932. Discusses factors influencing oven efficiency.

Millar, P. S.

Quality standards. Elect. World 93: 1336-1341. 1929.
Purposes plan for testing and approving equipment.

Moffatt, L. E.

Who profits. Elect. Merchandising 39 (4): 77-79. 1928.

Tests of five very cheap stoves show violation of safety codes in several respects.

DESIGN AND STANDARDS - ENGLISH

Anonymous

Cooker design. Electrician 107: 150. 1931.

Suggestions for improvements in design of ranges.

Cooking apparatus development. Elect. Rev. [London] 109: 595. 1931. Survey of new cooking equipment.

English manufacturers sell standard electric stove. Amer. Standards Asser Bull. 58: 9. 1931.

Description of standardized stove designed for mass production by a group of manufacturers said to produce nine-tenths of the electric stoves made in England.

A new cooker design. Elect. Rev. [London] 111: 850. 1932.

Features a fixed one piece steam-tight oven, with no access to the elements from the oven interior.

Cooking equipment. Elect. Rev. [London] 111: 538-543. 1932.

Detailed descriptions, with prices, of cooking equipment, including small units.

The improved model of the "Everhot". Elect. Rev. [London] 111: 394.

Description of a portable circular unit for baking and boiling.

DESIGN AND STANDARDS - ENGLISH (CONTINUED)

Anonymous

The standardization of cookers. Elect. Rev. [London] 111: 776. 1932. Description of standardized models.

Cooker reconditioning. Elect. Rev. [London] 113: 45. 1933.

Description of method for reconditioning in Wimbleton plant.

Cooking equipment. Elect. Rev. [London] 113: 492- . 1933.

Review of family and breakfast cookers, showing trend toward standardization.

Electric cooking. Electrician 111: 610. 1933.

Abstract of paper by D. G. Acworth on development of electric cooking at home and abroad, with comments on differences in design.

Some cooker improvements. Elect. Rev. [London] 113: 118. 1933.

New cooker with no projections inside oven, heating elements sliding into pockets.

Baxter, C. E.

Domestic apparatus design. Elect. Rev. [London] 110: 374-375. 1932. Review with recommendations.

Bickell, S. F.

Electric cookers. Present trend in design and prospects of increased use. Electrician 110: 409. 1933.

Electric cookers. Electrician 110: 105. 1933.
Review of year's progress.

Electric cookers. Electrician 112: 117. 1934.

Consumer's Engineer

Electricity for the home. Elect. Rev. [London] 105: 1134-1136. 1929.

A constructive criticism of the present methods and practices of manufacturers.

A commentary on the design and layout of electric cookers. Elect. Rev. [London] 106: 581-583. 1930.

Dover, H. L.

Electric cookers. Electrician 106: 54. 1931. Review of present trends, with recommendations.

Electric cookers. Electrician 108: 135. 1932. Emphasizes need for standardized cooker.

DESIGN AND STANDARDS - ENGLISH (CONTINUED)

Improvement in electric cookers. Electrician 96: 579, 585. 1926.

Description of new cooking table designed for use with kettles with self-contained elements.

THERMAL STORAGE STOVES

Anonymous

Electric cooking load. Engineer 148: 389. 1929.

Description, with illustration, of the Sechaus heat storage stove.

Thermal storage cooker. Elect. Rev. [London] 105: 750. 1929.
Brief description of Swedish iron-block type range.

Revolutionary cooker. Elect. Trading [London] 2: 54-55. 1931.
British thermal storage range.

The British industries fair at Birmingham. Engineering [London] 133: 273-281. 1932.

Detailed description (pp. 279-280) of thermal storage stove in use in England.

Heat-storage cooker. Elect. Rev. [London] III: 11. 1932.

Description, with illustration of Swiss (Seehaus) stove.

Dover, H. L.

Thermal storage cookers. Electrician 104: 794-795. 1930.

Advantages for domestic purposes, with description of Swedish Seves stove.

Matthews, R. B.

(Domestic applications of electricity.) Jour. Inst. Elect. Engin. 72: 136-137. 1933.

Report of developments, particularly in thermal-storage ranges and standardization of ranges.

SURFACE UNITS

Anonymous

New design of charomalox helix type boiling plates. Electrician 107: 130. 1931.

Technical description with photographs of redesigned plates.

The "Manor" hot-plate. Elect. Rev. [London] 111: 224. 1932. New design for boiling plate.

Hot-plate developments. Elect. Rev. [London] 113: 348. 1933. Report of German standards for hot-plate performance.

SURFACE UNITS (CONTINUED)

Anonymous

Hot-plate testing. Elect. Rev. [London] 113: 700. 1933.

Describes recommended testing methods of British Electrical and Allied Industries Research Association.

Archer, C. H.

Electric heating elements. Elect. Rev. [London] 110: 906. 1932. Satisfactory boiling plate still a problem.

Bickell, S. F.

Boiling plate of today. Electrician 102: 692-693. 1929. Present practices and future design.

Cherry, R. M., and Finlayson, F. E.

The construction and application of Calrod heating units. Gen. Elect. Rev. 36: 354-360; 411-415. 1933.

The Calrod unit; Cartridge units and strip heaters.

Howard, A. J.

Heating and cooking. The problem of the boiling plate. Elect. Rev. [London] 109: 838. 1931.

Mickler, G. J.

Comparison of range elements. Elect. World 91: 199-201. 1928.

No marked superiority found between open and closed range element in series of tests.

Swartz, V. W.

Thermal efficiency of surface units on electric ranges. Jour. Home Ecor 23: 459-464. 1931.

Data and conclusions.

UTENSILS

Anonymous

Specially designed cooking utensils. Elect. Rev. [London] 105: 897. 1929.

Data and diagrams to illustrate variations in efficiencies in boiling plates and cooking utensils.

Special cooking utensils. Elect. Rev. [London] 110: 11. 1932. Utensils satisfactory for electric cooking described.

Cornehl, B., and Swartz, V. W.

Speed and efficiency of oven utensils. Jour. Home Econ. 23: 464-467.

Wide variation in efficiencies shown.

Greene, P. S., and Smith, L.

Brief outline of study of relative efficiencies of different types of utensils in electrical cookery. Maine Agr. Expt. Sta. Bull. 360: 193-194. 1931.

Importance of type and material shown.

UTENSILS (CONTINUED)

Kerkow, H.

Revere resurrects copperware for kitchen, Sales Management 31: 514, 538-539. 1932.

Merchandising utensils.

Landreth, C., and Hutchinson, R. C.

Thermal efficiencies of aluminum saucepans. Jour. Home Econ. 21: 599-604. 1929.

Loizeau, A. S.

Electrical cooking aided by blackbottom utensils. Elect. World 99: 997. 1932.

Data on increase in thermal efficiency.

Meredith, G.

Baking dishes for the electric oven. Elect. on the Farm 5 (4): 22-24. 1932.

Monroe, M. M., and Smith, S.

Thermal efficiency of cooking utensils as affected by variations in the area of their contact with the heating surface. Jour. Home Econ. 26: 42-45. 1934.

Phillips, C. J., and Nordberg, M. L.
Ovenware and fuel economy. Jour. Home Econ. 26: 37-41. 1934.

Roberts, E. H.

The thermal efficiency of utensils for the electric range. Purnell Research in Home Econ., Wash. Agr. Expt. Sta. 142 p. 1933. [Typewritten]

Utensils for the electric range. Wash. Agr. Expt. Sta. Bull. 283, 20 pp. 1933.

Most efficient utensils for top stove and oven cooking determined by

Sater, V. E., and Poet, L. J.

Thickness of an aluminum utensil as a factor in its thermal efficiency when used in surface cookery on an electric range. Jour. Home Econ. 25: 324-326. 1933.

Swartz. V. W.

Baking vegetables electrically. Wash. Agr. Expt. Sta. Bull. 251, 20 pp. 1931.

Standards for cooking vegetables in the electric oven. Purnell Research in Home Econ., Wash. Agr. Expt. Sta. 111 pp. 1931. [Typewritten.]

and Jones, G.

Fuel economy of triplicate pans. Jour. Home Econ. 23: 467-470. 1931.

Saving of 27 percent of current over 3 single pans.